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ENERGY

2014 Regional EM&V Forum Annual State Evaluation Activities Webinar

EmPOWER Maryland

May 15, 2014

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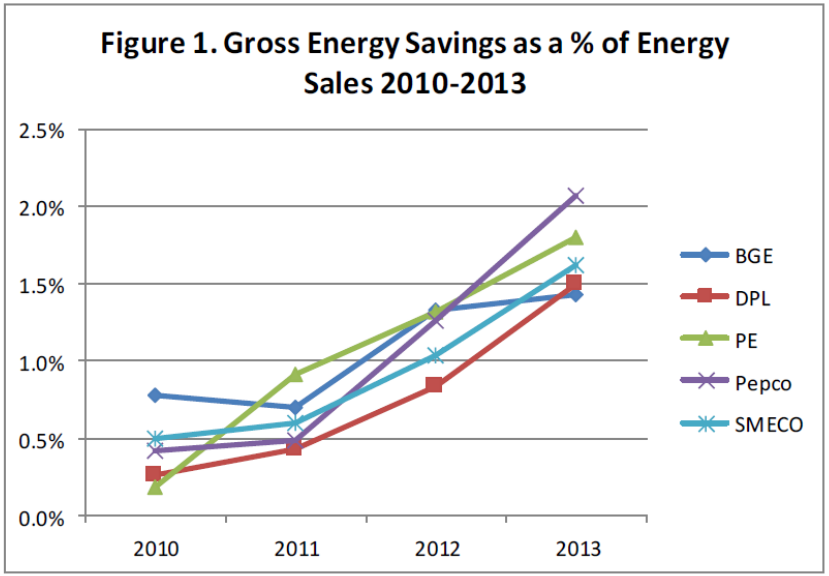
Maryland Context

- Reduce energy consumption by 15 percent by 2015 (2007 baseline)
- Utilities offer comprehensive portfolios of energy efficiency and demand response programs
- Program performance has improved over time
- Active stakeholder engagement and program planning process



Source: 2013 EmPOWER Maryland Second-Half Semi-Annual Reports General Staff Overview and Comments

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Evaluation Roles

- Maryland PSC
  - *Approve budgets and program designs, track progress toward EmPOWER goals (per capita reduction from 2007 baseline), report/distribute evaluation findings/products, final arbiter for disputes*
- EmPOWER Utilities (BGE, PEPCO, DPL, SMECO, PE)
  - *Design & implement programs and portfolios, maintain program tracking systems, quarterly reporting of participation and costs, manage statewide evaluator*
- Navigant (Cadmus as primary subcontractor) – Statewide Evaluator
  - *Report to EmPOWER Utilities, evaluate EmPOWER programs (except Ltd Income), assist bids to PJM forward capacity market*
- Itron – Independent Evaluator
  - *Report to PSC, coordinate strategic planning and stakeholder engagement, review program evaluation plans, verify evaluation results*

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2013 Evaluation Activities

- Gross and net savings impact evaluation
  - Multiple program categories
  - Behavioral programs
  - CVR programs
- Cost-effectiveness assessment
- Targeted process evaluation research

C&I	Residential
Custom & RCx	Appliance Rebate
Master Metered Multifamily	Appliance Recycling
New Construction	HPwES
Prescriptive	HVAC
Small Business Direct Install	Lighting
	New Construction
	QHEC

Primary evaluation objectives:

- Track progress against regulatory targets
- Assess program cost-effectiveness
- Support utility bids into the PJM RPM
- Feed evaluation results into the Mid-Atlantic TRM

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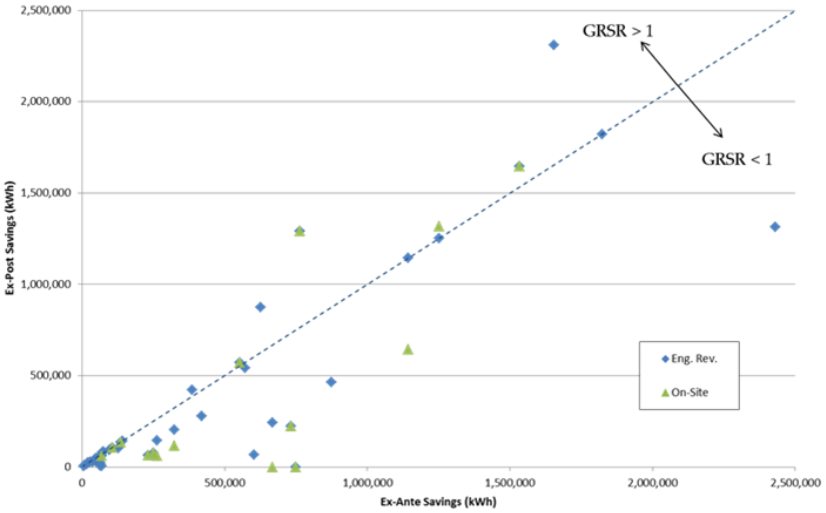
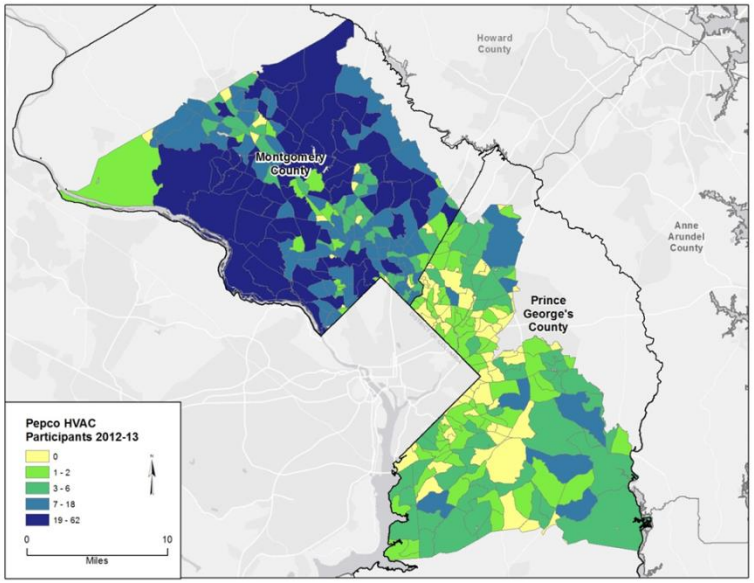
2013 Evaluation Activities cont'd

- The statewide evaluation team has employed a comprehensive evaluation approach
  - Foundational work (e.g., logic models, staff interviews) completed in early years
  - Database reviews & reconciliation
  - Engineering reviews
  - Field verification and onsite metering
  - Billing analysis
  - Market actor interviews/surveys/focus groups
  - Calibrated building simulation models
  - Shelf stocking studies
- The evaluation team is working to improve feedback loops with ICs and TRM





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High-level Observations

- Programs appear to be gaining traction in the marketplace
- Steady improvement in program tracking systems and reported results
- Utility programs are cost-effective at the portfolio and sector levels
- Evaluation process is becoming more robust and efficient
- 2015 – 2017 program planning process
  - Active stakeholder engagement
  - Working Groups convened to collaboratively discuss and resolve relevant issues
  - Statewide potential study and saturation surveys underway

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Key CONTACTS

THANK YOU!

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